

ELECTRONIC INFORMATION DISCLOSURE STATEMENT

Electronic Version v18

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Title of Invention

SYSTEMS AND METHODS FOR CAPTURING HANDWRITTEN
INFORMATION USING HANDWRITING ANALYSIS

Application Number : 10/734738



Confirmation Number: 9583

First Named Applicant: Gilles Houle

Attorney Docket Number: 5053-00509

Art Unit: 2624

Examiner: Unknown-Unknown S Chawan

Search string: (5454046 or 5680470 or 5710916 or 5828772 or 5909500 or 5995953 or 6084985 or 6108444 or 6157731 or 6249604).pn

US Patent Documents

Note: Applicant is not required to submit a paper copy of cited US Patent Documents

init	Cite.No.	Patent No.	Date	Patentee	Kind	Class	Subclass
/SCC	1	5454046	1995-09-26	Carman, II			
	2	5680470	1997-10-21	Moussa et al.			
	3	5710916	1998-01-20	Barbara et al.			
	4	5828772	1998-10-27	Kashi et al.			
	5	5909500	1999-06-01	Moore			
	6	5995953	1999-11-30	Rindtorff et al.			
	7	6084985	2000-07-04	Dolfing et al.			
	8	6108444	2000-08-22	Syeda-Mahmood			
	9	6157731	2000-12-05	Hu et al.			
✓	10	6249604	2001-06-19	Huttenlocher et al.			

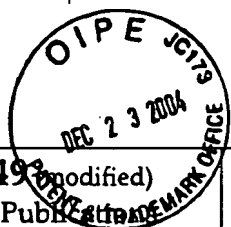
Remarks

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Should any fees be required, the Commissioner is authorized to charge said fees to Meyertons, Hood, Kivlin, Kowert and Goetzel, P.C. Deposit Account No. 50-1505/5053-00509/EBM.

Signature

Examiner Name	Date
/Sheela Chawan/	06/11/2007

**Form PTO-1449 (modified)**

List of Patents and Publications
For Applicant's Information
Disclosure Statement
(Use several sheets if necessary)

ATTY. DKT. NO. 5053-00509

APPLICANT: Houle et al.

FILING DATE: December 12, 2003

SERIAL NO. 10/734,738

CONF. NO.: 9583

ART UNIT: 2621

U.S. PATENT DOCUMENTS

EXAM. INITIALS	REF. DES.	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE

FOREIGN PATENT DOCUMENTS

EXAM. INITIALS	REF. DES.	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRANSLATION YES/NO
/SCC/	A1	GB 2 271 657	04/20/1994	UK			

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

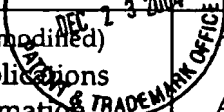
/SCC/	A2	Dijkstra et al., "IRIS An Image Recognition and Interpretation System for the Dutch Postbank", Sep. 3, 2000, pp. 23-26, Pattern Recognition, 2000 Proceedings.
	A3	Knerr et al., "Hidden Markov Model Based Word Recognition and Its Application to Legal Amount Reading on French Checks", June 1998, pp. 404-419, Computer Vision and Image Understanding, vol. 70, No. 3.
	A4	Suen et al., "Automatic Recognition of Handwritten Data on Cheques-Fact or Fiction?", Nov. 1999, pp. 1287-1295, Pattern Recognition Letters, North-Holland Publ., Amsterdam, NL, vol. 20, no. 11-13.
	A5	Srihari et al., "Document Image-Processing System For Name and Address Recognition", Dec. 21, 1996, pp. 379-391, International Journal of Imaging Systems and Technology, Wiley and Sons, New York, vol 7, no. 4.
	A6	Kaufmann et al., "Amount Translation and Error Localization in Check Processing Using Syntax-Directed Translation," 1998, pp. 1530-1534, Proc. Int. Conf. on Pattern Recognition, Brisbane, Australia.
	A7	International Search Report for European Application No. 03005807.7 mailed May 20
	A8	Office Communication for European Application No. 03005807.7 mailed March 9


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DATE CONSIDERED: 06/11/2007

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Information Disclosure Statement--PTO 1449 (modified)



Form PTO-1449 (modified) List of Patents and Publications For Applicant's Information Disclosure Statement (Use several sheets if necessary)			ATTY. DKT. NO. 5053-00509 APPLICANT: Houle et al. FILING DATE: December 12, 2003			SERIAL NO. 10/734,738 CONF. NO.: 9583 ART UNIT: 2621	
U.S. PATENT DOCUMENTS							
EXAM. INITIALS	REF. DES.	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE
/SCC/ 	A9	10/714,523 (specification and figures same as above referenced application)	11/14/2003	Houle et al.			
	A10	10/735,280 (specification and figures same as above referenced application)	12/12/2003	Houle et al.			
	A12	10/741,156 (specification and figures same as above referenced application)	12/19/2003	Houle et al.			
	A13	10/741,157 (specification and figures same as above referenced application)	12/19/2003	Houle et al.			
FOREIGN PATENT DOCUMENTS							
EXAM. INITIALS	REF. DES.	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRANSLATION YES/NO
OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)							

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Information Disclosure Statement--PTO 1449 (modified)

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)

Application Number		10734738
Filing Date		2003-12-12
First Named Inventor	Houle, et al.	
Art Unit	2621 2624	
Examiner Name	Unknown S. Charan	
Attorney Docket Number	5053-00509	

U.S. PATENTS

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Examiner Initial*	Cite No	Patent Number	Kind Code ¹	Issue Date	Name of Patentee or Applicant of cited Document	Pages, Columns, Lines where Relevant Passages or Relevant Figures Appear
/SCC/	1	6836555		2004-12-28	Ericson et al.	
	2	6424728		2002-07-23	Ammar	
	3	4646351		1987-02-24	Asbo et al.	
	4	6236740		2001-05-22	Lee	
	5	6393138		2002-05-21	Chai	
	6	5757960		1998-05-26	Murdock et al.	
	7	3806704		1974-04-23	Shinal	

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Examiner Initial*	Cite No	Publication Number	Kind Code ¹	Publication Date	Name of Patentee or Applicant of cited Document	Pages, Columns, Lines where Relevant Passages or Relevant Figures Appear
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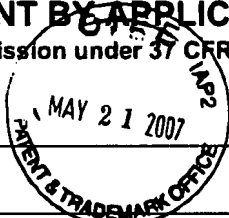
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Art Unit	2621-2624	
Examiner Name	Unknown S. Chanar	
Attorney Docket Number	5053-00509	

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NON-PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc), date, pages(s), volume-issue number(s), publisher, city and/or country where published.	T5
/SCC/	1	R1. Arazi, B.: 1977, Handwriting identification by means of run-length measurements, IEEE Trans. Syst., Man and Cybernetics SMC-7 (12), 878-881.	<input type="checkbox"/>
	2	R2. Arazi, B.: 1983, Automatic handwriting identification based on the external properties of the samples, IEEE Trans. Syst., Man and Cybernetics SMC-13 (4), 635-642.	<input type="checkbox"/>
	3	R3. Drouhard, J., Sabourin, R. and Godbout, M.: 1995, A comparative study of the k nearest neighbours, threshold and neural network classifiers for handwritten signature verification using an enhanced directional pdf, Proc. of the 3rd International Conference on Document Analysis and Recognition, Montreal, Canada, pp. 807-810.	<input type="checkbox"/>
	4	R4. Klement, V.: 1983, An application system for the computer-assisted identification of handwriting, Proc. Int. Carnahan Conf. on Security Technol., Zurich, Switzerland, pp. 75-79.	<input type="checkbox"/>
	5	R5. Kondo, S. and Attachoo, B.: 1986, Model of handwriting process and its analysis, Proc. ICPR, pp. 562-565.	<input type="checkbox"/>
	6	R6. Maarse, F., Schomaker, L. and Teulings, H.L.: 1988, Automatic identification of writers, in G. van der Veer and G. Mulder (eds), Human-Computer Interaction: Psychonomic Aspects, Springer, New York, pp. 353-360.	<input type="checkbox"/>
	7	R7. Maarse, F. and Thomassen, A.: 1983, Produced and perceived writing slant: differences between up and down strokes, ACTA Psychologica 54 (1-3), 131-147.	<input type="checkbox"/>
	8	R8. Plamondon, R. and Srihari, S.N.: 2000, On-line and off-line handwriting recognition: a comprehensive survey, IEEE Transactions on Pattern Analysis and Machine Intelligence 22 (1), 63-84.	<input type="checkbox"/>
	9	R9. Plamondon, R. and Lorette, G.: 1989, Automatic signature verification and writer identification-the state of the art, Pattern Recognition 22 (2), 107-131.	<input type="checkbox"/>

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Application Number		10734738
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First Named Inventor	Houle, et al.	
Art Unit	2624	
Examiner Name	Unknown <i>S. Chandra</i>	
Attorney Docket Number	5053-00509	

/SCC/	10	R10. Sabourin, R. and Drouhard, J.: 1992, Off-line signature verification using directional pdf and neural networks, Proc. of the 11th International Conference on Pattern Recognition (ICPR 1992), The Hague, Netherlands, pp. 321-325.	<input type="checkbox"/>
	11	R11. Said, H., Peake, G., Tan, T. and Baker, K.: 1998, Writer identification based on handwriting, Pattern Recognition 33 (1), 149-160.	<input type="checkbox"/>
	12	R12. Steinke, K.: 1981, Recognition of writers by handwriting images, Pattern Recognition 14 (1-6), 357-364.	<input type="checkbox"/>
	13	R13. Vuurpijl, L. and Schomaker, L.: 1997, Finding structure in diversity: A hierarchical clustering method for the categorization of allographs in handwriting, Proc. of 4th ICDAR, IEEE, Ulm, Germany, pp. 387-393.	<input type="checkbox"/>
	14	R14. Zois, E. and Anastassopoulos, V.: 2000, Morphological waveform coding for writer identification, Pattern Recognition 33 (3), 385-398.	<input type="checkbox"/>
	15	R15. Bajaj, R. and Chaudhury, S., "Signature Verification Using Multiple Neural Classifiers," Pattern Recognition, vol. 30, no. 1, pp. 1-7, 1997.	<input type="checkbox"/>
	16	R16. Bauer, F. and Wirtz, B., "Parameter Reduction and Personalized Parameter Selection for Automatic Signature Verification," Proc. 3rd International Conference Document Analysis and Recognition (ICDAR '95), pp. 183-186, Montreal, Aug. 1995.	<input type="checkbox"/>
	17	R17. Bouletreau, V. Vincent, N., Sabourin, R. and Emptoz, H., "Handwriting and Signature: One or Two Personality Identifiers?" Proc. 14th International Conference Pattern Recognition, pp. 1,758-1,760, Brisbane, Australia, Aug. 1998.	<input type="checkbox"/>
	18	R18. Cardot, H., Revenu, M., Victorri, B. and Revillet, M.J., "A Static Signature Verification System Based on a Cooperative Neural Network Architecture," Int'l J. Pattern Recognition and Artificial Intelligence, vol. 8, no. 3, pp. 679-692, 1994.	<input type="checkbox"/>
	19	R19. Cordella, C.P., Foggia, P., Sansone, C. and Vento, M., "Document Validation by Signatures: A Serial Multi-Expert Approach," Proc. International Conference Document Analysis and Recognition (ICDAR '99), pp. 601-604, Bangalore, India, Sept. 1999.	<input type="checkbox"/>
↓	20	R20. Dehghan, M., Faez, K. and Fathi, M., "Signature Verification Using Shape Descriptors and Multiple Neural Networks," Proc. IEEE TENCON-Speech and Image Technologies for Computing and Telecommunications Conf., vol. 1, pp. 415-418, 1997.	<input type="checkbox"/>

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Art Unit	2624	
Examiner Name	Unknown <i>S. Chana</i>	
Attorney Docket Number	5053-00509	

/SCC/	21	R21. Dolfing, J.G.A., Aarts, E.H.L. and Van Oosterhout, J.J.G.M., "On-Line Verification Signature with Hidden Markov Models," Proc. 14th International Conference Pattern Recognition, pp. 1,309-1,312, Brisbane, Australia, Aug. 1998.	<input type="checkbox"/>
	22	R22. Drouhard, J.P., Sabourin, R. and Godbout, M., "Neural Network Approach to Off-Line Signature Verification Using Directional PDF," Pattern Recognition, vol. 29, no. 3, pp. 415-424, 1996.	<input type="checkbox"/>
	23	R23. Foltyniewicz, R. and Sitnik, M., "Verification of Persons via Face and Signature Analysis," Proc. International Conference Image Processing (ICIP), vol. 3, pp. 495-498, 1996.	<input type="checkbox"/>
	24	R24. Guillevic, D. and Suen, C.Y., "HMM-KNN Word Recognition Engine for Bank Cheque Processing," Proc. 14th International Conference Pattern Recognition, pp. 1,526-1,529, Brisbane, Australia, Aug. 1998.	<input type="checkbox"/>
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	26	R26. Huang, K. and Yan, H., "Off-Line Signature Verification Based on Geometric Feature Extraction and Neural Network Classification," Pattern Recognition, vol. 30, no. 1, pp. Sept. 17, 1997.	<input type="checkbox"/>
	27	R27. Kim, G. and Govindaraju, V., "Bankcheck Recognition Using Cross Validation Between Legal and courtesy Amounts," International Journal Pattern Recognition and Artificial Intelligence, vol. 11, no. 4, pp. 657-674, 1997.	<input type="checkbox"/>
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	29	R29. Leclerc, F. and Plamondon, R., "Automatic Signature Verification: The State of the Art, 1989-1993," International Journal Pattern Recognition and Artificial Intelligence, special issue signature verification, vol. 8, no. 3, pp. 643-660, 1994.	<input type="checkbox"/>
	30	R30. Liu, K., Suen, C.Y., Cheriet, M., Said, J.N., Nadal, C. and Tang, Y.Y., "Automatic Extraction of Baselines and Data from Check Images," International Journal Pattern Recognition and Artificial Intelligence, vol. 11, no. 4, pp. 675-697, 1997.	<input type="checkbox"/>
↓	31	R31. Mackowiak, J., Schomaker, L.R.B. and Vuurpijl, L., "Semi-Automatic Determination of Allograph Duration and Position in On-Line Handwriting Words Based on the Expected Number of Strokes," Progress in Handwriting Recognition. A.C. Downton and S. Impedovo, eds., London: World Scientific, 1997.	<input type="checkbox"/>

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Application Number		10734738
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First Named Inventor	Houle, et al.	
Art Unit	2624	
Examiner Name	Unknown S. Chavar	
Attorney Docket Number	5053-00509	

/SCC/	32	R32. Olivier, C., Paquet, T., Avila, M. and Lecourtier, Y., "Optimal Order of Markov Models Applied to Bankchecks," International Journal Pattern Recognition and Artificial Intelligence, vol. 11, no. 5, pp. 789-800, 1997.	<input type="checkbox"/>
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	35	R35. Sabourin, R. Drouhard, J.P. and Wah, E.S., "Shape Matrices as a Mixed Shape Factor for Off-Line Signature Verification," Proc. 4th International Conference Document Analysis and Recognition (ICDAR '97), pp. 661-665, Ulm, Germany, Aug. 1997.	<input type="checkbox"/>
	36	R36. Sabourin, R., Genest, G. and Preteux, F., "Off-Line Signature Verification by Local Granulometric Size Distributions," IEEE Trans. Pattern Analysis and Machine Intelligence, vol. 19, no. 9, pp. 976-988, 1997.	<input type="checkbox"/>
	37	R37. Sabourin, R., Plamondon, R. and Lorette, G., "Off-Line Identification with Handwritten Signature Images: Survey and Perspectives," Structured Document Image Analysis. H. Baird, H. Bunke, and K. Yamamoto, eds., pp. 219-234, Berlin, Heidelberg, New York, Tokyo: Springer-Verlag, 1992.	<input type="checkbox"/>
	38	R38. Sagar, V.K., Chong, S.W., Leedham, C.G. and Solihin, Y., "Slant Manipulation and Character Segmentation for Forensic document Examination," IEEE TENCON-Digital Signal Processing Applications, pp. 933-938, 1996.	<input type="checkbox"/>
	39	R39. Deng, P.S., Liao, H.Y.M., Ho, C.W. and Tyan, H.R., "Wavelet-Based Off-Line handwritten Signature Verification," Computer Vision Image Understanding, 76 (3), pp. 173-190, 1999.	<input type="checkbox"/>
	40	R40. Wirtz, B., "Stroke-Based Time Warping for Signature Verification," Proc. 3rd International Conference Document Analysis and Recognition (ICDAR '95), pp. 179-182, Montreal, Aug. 1995.	<input type="checkbox"/>
	41	R41. Yang, L., Widjaja, B.K. and Prasad, R., "Application of Hidden Markov Models for Signature Verification," Pattern Recognition, vol. 28, no. 2, pp. 161-170, 1995.	<input type="checkbox"/>
↓	42	R42. G. Dimauro, S. Impedovo, G. Pirlo, and A. Sazo, "A Multi-Expert Signature Verification System for Bankcheck Processing," Int'l J. Pattern Recognition and Artificial Intelligence, vol. 11, no.5, pp.827-844, 1997.	<input type="checkbox"/>

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Application Number		10734738
Filing Date		2003-12-12
First Named Inventor	Houle, et al.	
Art Unit	26214	
Examiner Name	Unknown <i>Schwan</i>	
Attorney Docket Number	5053-00509	

/SCCI/	43	R43. de Jong, W., Kroon van der Kooij, L. and Schmidt, D.: 1994, Computer aided analysis of handwriting, the NIFO-TNO approach, Proc. of the 4th European Handwriting Conference for Police and Government Handwriting Experts.	<input type="checkbox"/>
	44	R44. Huber, R.A. and Headrick, A.: 1999, Handwriting Identification: Facts and Fundamentals, CRC Press, Boca Raton.	<input type="checkbox"/>
	45	R45. Klement, V.: 1981, Forensic writer recognition, in J. Simon and R. Haralick (eds), Proc. NATO Adv. Stud. Inst., pp. 519-524.	<input type="checkbox"/>
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	48	R48. Kuckuck, W., Rieger, B. and Steinke, K.: 1979, Automatic writer recognition, Proc. 1979 Carnahan Conf. on Crime Countermeasures, University of Kentucky, Lexington, pp. 57-64.	<input type="checkbox"/>
	49	R49. Morris, R.N.: 2000, Forensic Handwriting Identification: Fundamental Concepts and Principles, first edn, Academic Press, London.	<input type="checkbox"/>
↓	50	R50. Naske, R.: 1982, Writer recognition by prototype related deformation of handprinted characters, Proc. of the 6th International Conference on pattern Recognition, Vol. 2, Munich, Germany, pp. 819-822.	<input type="checkbox"/>

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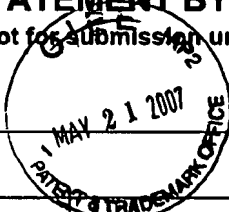
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First Named Inventor	Houle, et al.	
Art Unit	26214	
Examiner Name	Unknown <i>Sheela Chawan</i>	
Attorney Docket Number	5053-00509	

/SCC/	1	R51. Said, H., Peake, G., Tan, T. and Baker, K.: 1998, Writer identification from non-uniformly skewed handwriting images, Proc. of the 9th British Machine Vision Conference, pp. 478-487.	<input type="checkbox"/>
	2	R52. Schomaker, L. and Vuurpijl, L.: 2000, Forensic writer identification: A benchmark data set and a comparison of two systems [internal report for the Netherlands Forensic Institute], Technical report, Nijmegen: NICI.	<input type="checkbox"/>
	3	R53. Bradford, R. and Bradford, R.B., Introduction to Handwriting Examination and Identification. Nelson-Hall, 1992.	<input type="checkbox"/>
	4	R54. Dimauro, G., Impedovo, S., Pirlo, G. and A. Salzo, "Automatic Bankcheck Processing: A New Engineered System," Machine Perception and Artificial Intelligence, S. Impedovo, P.S.P. Wang, and H. Bunke, eds., vol. 28, pp. 5-42, World Scientific, 1997.	<input type="checkbox"/>
	5	R55. Forte, A.M. and Impedovo, S., "A New Adaptive Neural Network for an Off-Line Signature Verification System," Proc. Int'l Conf. Pattern Recognition, pp. 355-363, 1996.	<input type="checkbox"/>
	6	R56. Pattern Recognition, special issue on automatic signature verification, R. Plamondon, ed., vol. 8, no. 3, June 1994.	<input type="checkbox"/>
	7	R57. Plamondon, R., Guerfali, W. and M. Lalonde, "Automatic Signature Verification: A Report on a Large-Scale Public Experiment," Proc. Ninth Biennial Conf. Int'l Graphonomics Soc., pp. 9-13, Singapore, June 1999.	<input type="checkbox"/>
	8	R58. Forensic, Developmental, and Neuropsychological Aspects of Handwriting, special issue, J. Forensic Document Examination, M. Simner, W. Hulstijn, and P. Girouard, eds.,	<input type="checkbox"/>

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